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GB/T 46958-2025

**Road Vehicles—Test Scenarios for Automated Driving
Systems—Scenario Based Safety Evaluation Framework**
**道路车辆 自动驾驶系统测试场景 基于场景的安全
评估框架**

(ISO 34502:2022, MOD)

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Road Vehicles—Test Scenarios for Automated Driving Systems— Scenario Based Safety Evaluation Framework

1 SCOPE

This document provides guidance for a scenario-based safety evaluation framework for automated driving systems (ADS). The framework elaborates a scenario-based safety evaluation process that is applied during product development.

This document is applicable to the vehicles of Categories M and N fitted with the ADS.

This document does not address safety-related issues involving misuse, human machine interaction and cybersecurity.

This document does not address non-safety related issues involving comfort, energy efficiency and traffic flow efficiency.

2 NORMATIVE REFERENCES

The following normative documents contain provisions which, through normative reference in this text, constitute essential provision of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendment) applies.

GB/T 43267-2023 Road vehicles—Safety of the intended functionality (ISO 21448:2022, MOD)

Note: No technical deviation between the referenced content from GB/T 43267-2023 and that from ISO 21448:2022 exists.

GB/T 46896-2025 Road Vehicles—Test Scenarios for Automated Driving Systems—Vocabulary (ISO 34501:2022, MOD)

Note: No technical deviation between the referenced content from GB/T 46896-2025 and that from ISO 34501:2022 exists.

ISO 26262-3 Road vehicles — Functional safety — Part 3: Concept phase

Note: GB/T 34590.3-2022 Road vehicles — Functional safety — Part 3: Concept phase (ISO 26262-3:2018, MOD)

3 TERMS AND DEFINITIONS

For the purpose of this document, the terms and definitions given in GB/T 46896-2025 and the following apply.

3.1 critical scenario

scenario including one or more risk factors (3.3)

3.2 hazardous scenario

scenario in which harm occurs unless prevented by an entity other than the ADS

3.3 risk factor

factor of a scenario that, if present, increases the probability of the occurrence of harm and/or the severity of harm

3.4 safety test objective

safety property of the ADS to be demonstrated via a series of tests

Note 1: The safety test objectives can be derived from the validation targets and the acceptance criteria of GB/T 43267-2023.

Note 2: The safety test objectives also include the test end criteria.

Note 3: Depending on the kind of the safety test objectives, the pass/fail-criteria of a concrete test

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